

RStudio: An Integrated Development Environment (IDE) for R

The image shows a screenshot of the RStudio IDE interface. The main editor window displays R Markdown code for a syllabus document. The code includes metadata (title, date, author), output options (pdf_document, html_document), and R code for loading libraries and setting options. The interface is divided into several panes:

- Source:** The main editor window showing the R Markdown code.
- Environment:** A pane on the right showing the current environment, including data objects (bio, bio.eig, bio.std, biogeo, biomes, pca, spe.eig, x) and values (colVec, exp.eig).
- History:** A pane on the right showing the history of R commands.
- Connections:** A pane on the right showing the connections to external data sources.
- Files:** A pane on the right showing the file explorer.
- Plots:** A pane on the right showing the plot viewer.
- Packages:** A pane on the right showing the installed and available packages.
- Help:** A pane on the right showing the help documentation.
- Viewer:** A pane on the right showing the rendered output of the R Markdown document.
- Console:** A pane at the bottom showing the R console output.
- Terminal:** A pane at the bottom showing the terminal output.
- R Markdown:** A pane at the bottom showing the R Markdown document.
- Jobs:** A pane at the bottom showing the jobs running in the background.

Callouts in the image highlight the following components:

- Source
- Environment
- History
- Connections
- Files
- Plots
- Packages
- Help
- Viewer
- Console
- Terminal
- R Markdown